

Title: POLYTHIOPHENES, BLOCK  
COPOLYMERS MADE THEREFROM  
AND METHODS OF FORMING THE  
SAME  
Application No. 10/634,035

**FIG. 1** MALDI MS reveals the incorporation of -OH functional group  
on one end of HT-PHT  $C_6H_{13}$

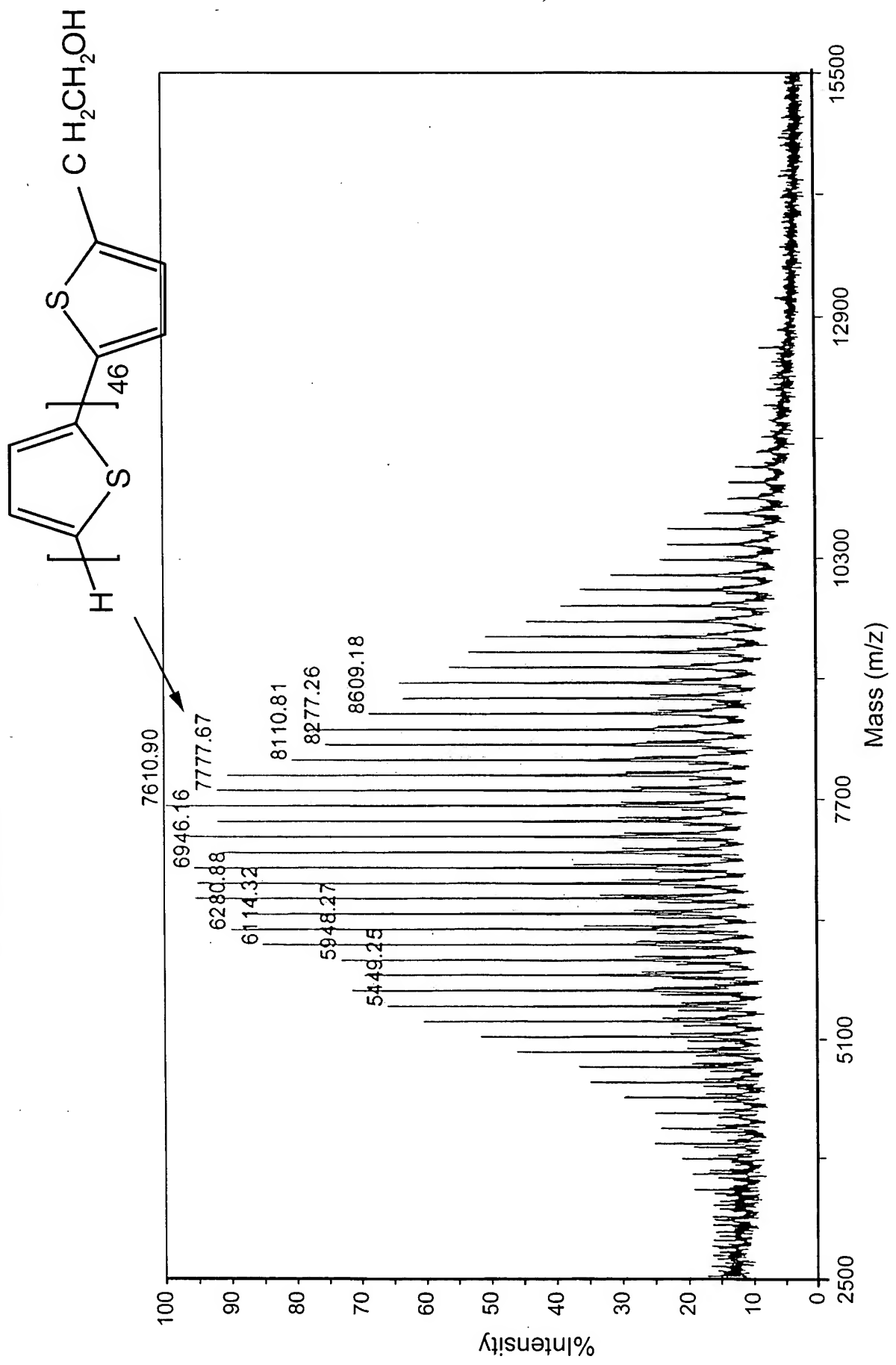


FIG. 2 NMR confirms the incorporation of the-OH functional group  
on one end of HT-PHT

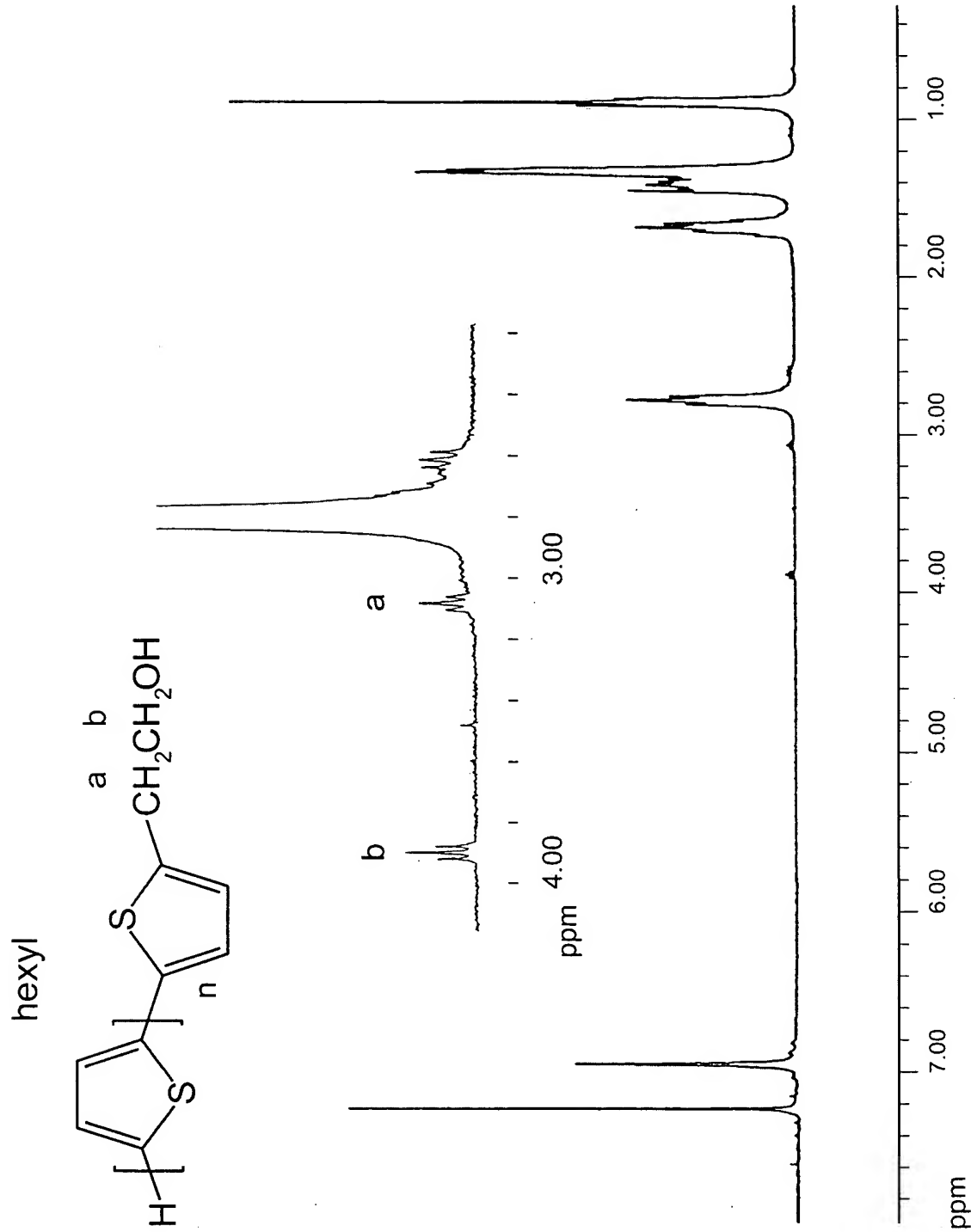


FIG. 3 MALDI MS reveals the obtaining of HT-PHT diol

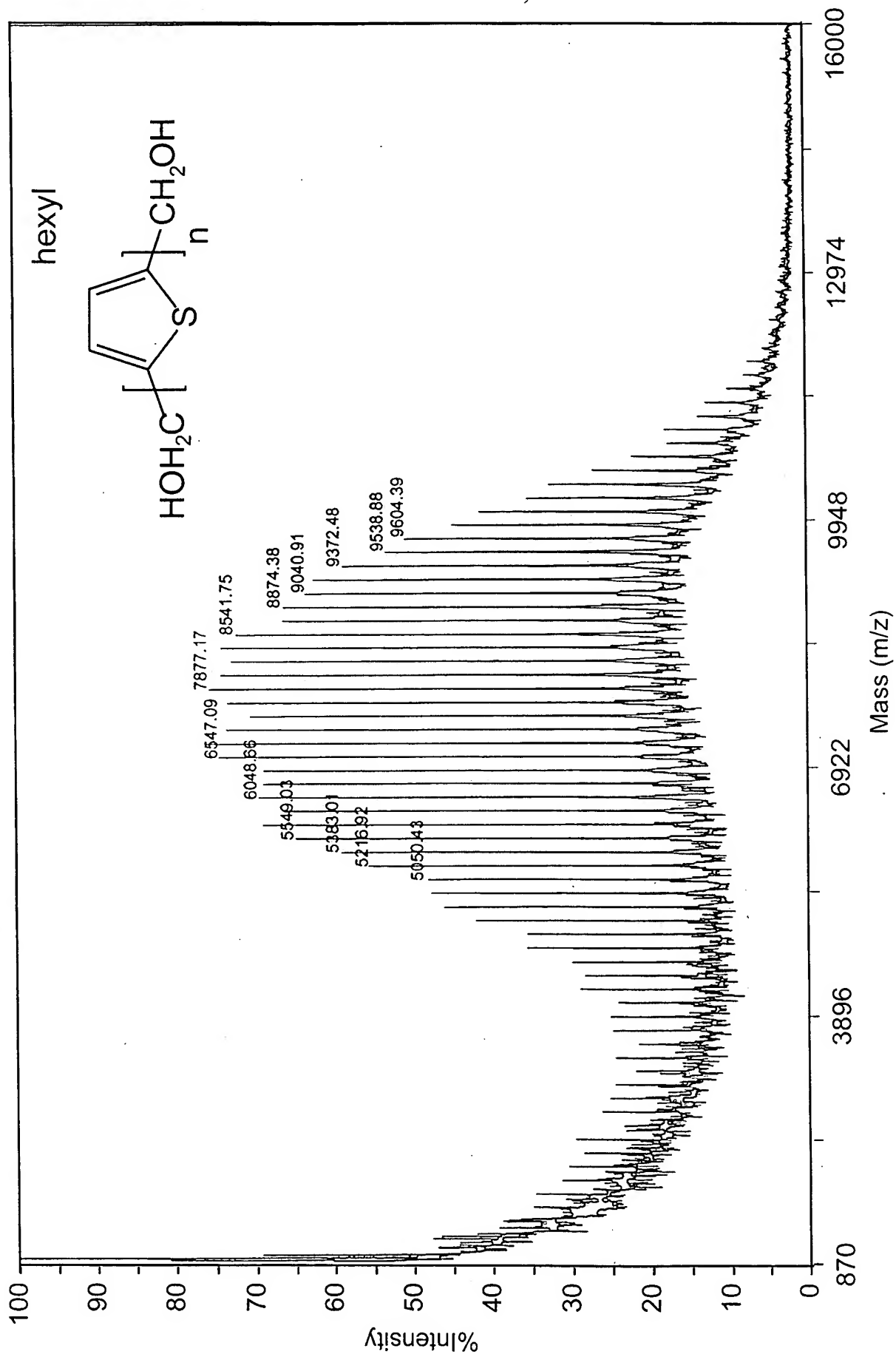


FIG. 4 AFM reveals the present of "nano-wire" network in the solid films of a  
HT-PHT-block-PS diblock copolymer

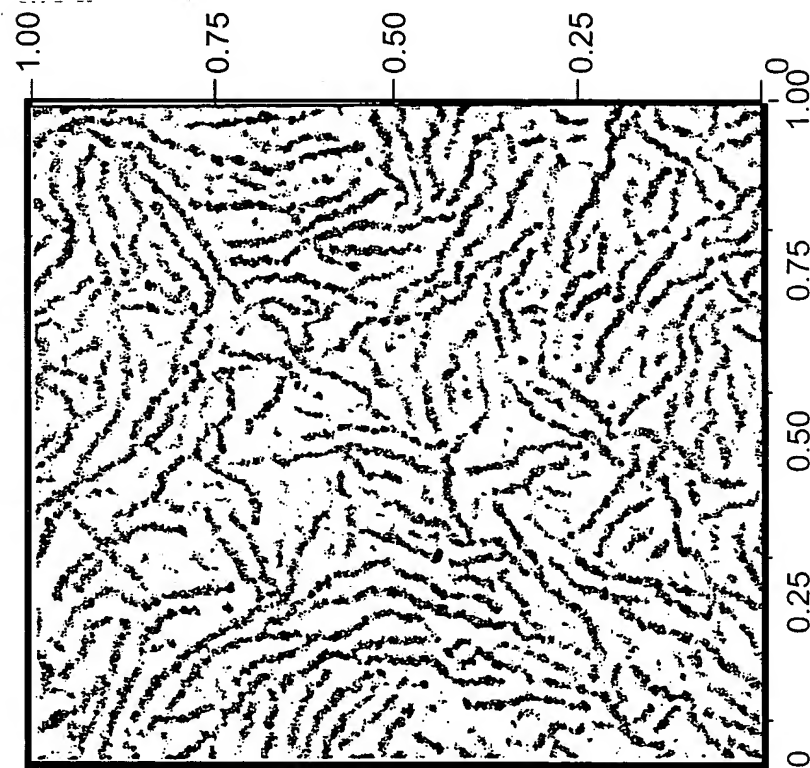
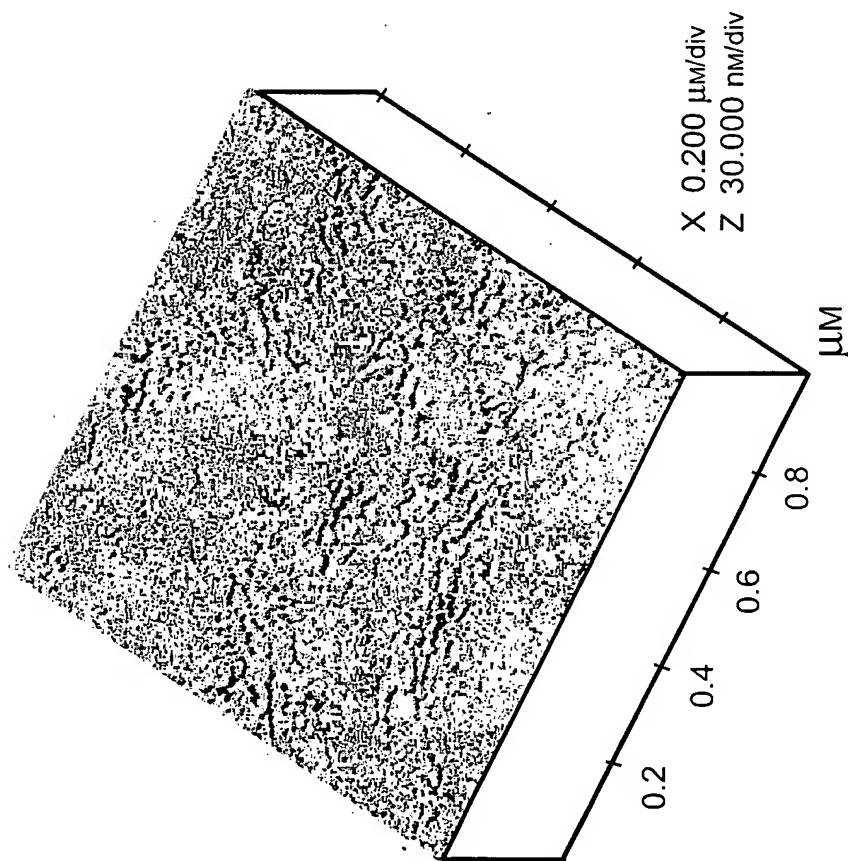
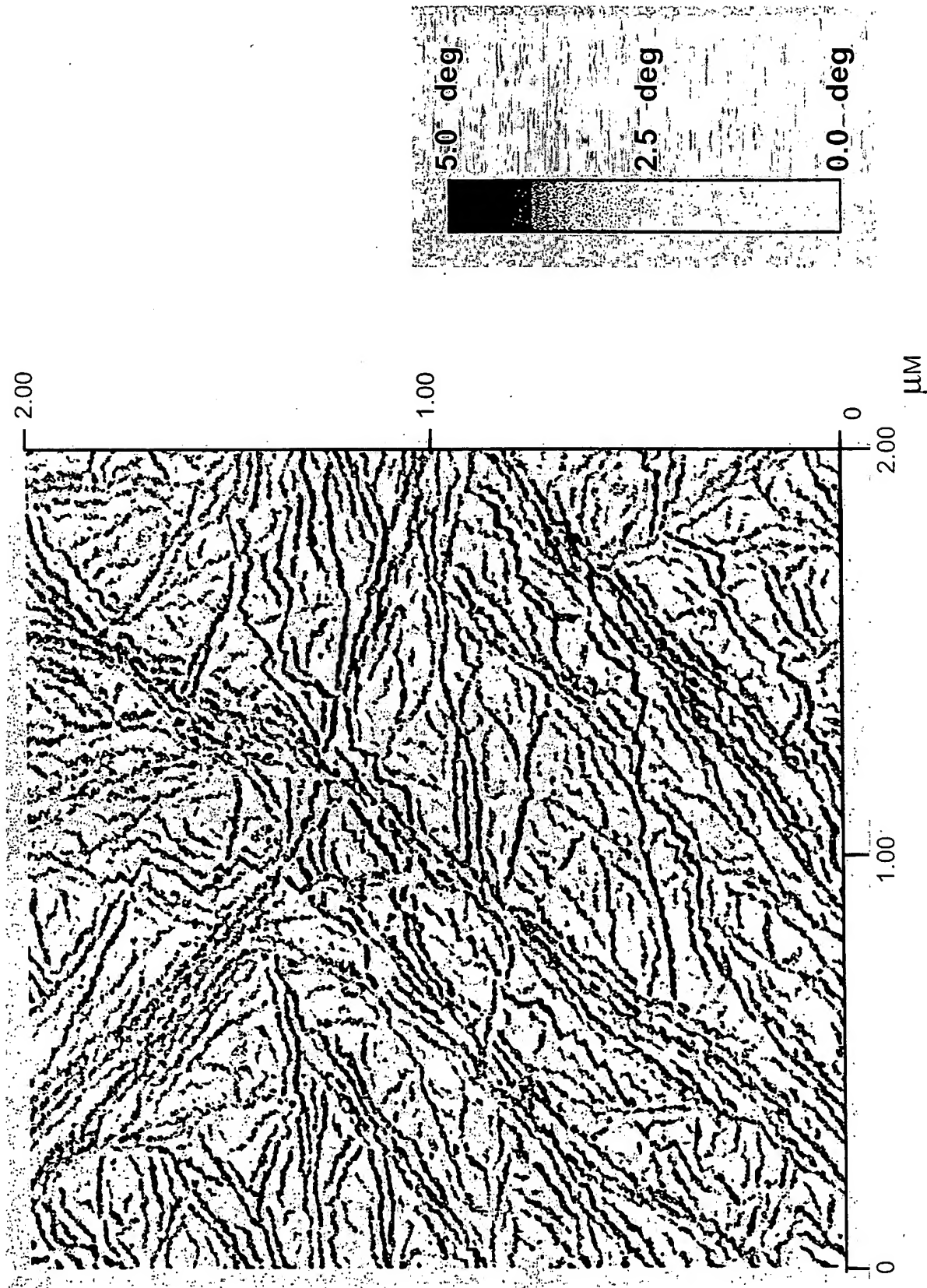


FIG. 5 AFM reveals the present of "nano-wire" network in the solid film of a  
HT-PHT-block-PMA diblock copolymer



**FIG. 6** TEM confirms the present of "nano-wire" network in the solid film of a  
HT-PHT-block-PMA diblock copolymer

